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Abstract of the Disclosure

Disclosed is a matrix material for implantation in a mammalian host comprising biocompatible mineral-free type I bone collagen, xenogenic to the host, and biodegradable therewithin. The matrix is manufactured from protein-extracted bone powder treated with certain swelling agents to increase its surface area and porosity. The matrix may be combined with osteogenic protein to induce reliably and reproducibly endochondral bone formation. It also can be used as a surface coat around implantable prosthetic devices to promote cellular ingrowth or as a carrier for sustained release of various therapeutic compositions.

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